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L57: (2) 6611047.URPN.
L58: (30503) (leadframe or (lead adj frame)) and (man
L59: (18540) 58 and ((leadframe or (lead adj frame))
L60: (2368) 59 and ((leadframe or (lead adj frame)) w
L61: (2368) 60 and (((leadframe or (lead adj frame))
L62: (2348) 61 not (27 28 38 32 33 34 35 44 45 46 47
L63: (1139) 62 and (chip or die or "IC")
L64: (163) 63 and (remov$4 and etch$4)
L65: (143) 64 and (package or shield$4 or resin)
L66: (133) 65 and (electrode or pad or terminal)
L67: (63) 66 and (((leadframe or (lead adj frame)) wi
L68: (49) 67 and (((leadframe or (lead adj frame)) wi
L69: (510) 27 28 38 32 33 34 35 44 45 46 47 48 49 50
L70: (70) 66 not 67
L71: (70) 70 not 69
L72: (30) 64 not 66
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DBs   USPAT; US-PGPUB; EPO; JPO; IBM_TDB   Plurals
Default operator   OR   Highlight all hit terms initially

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67 and (((leadframe or (lead adj frame)) with (manufactur$4 or form$4
or creat$4 or fabricat$4))).clm.
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B&S terms   ISAR.htm   Image   Text   HTML

	U	1	PT	P	Document ID	Issue Dat	Pages	Title	Current OR	Current XRef	R	Inventor	S	C
1					US 20040004275 A1	20040108	10	Lead-frame-based semiconductor package and fabrication method thereof	257/676	257/787; 438/123; 438/124		Chen, Holman et al.	✓	
2					US 20030153129 A1	20030814	9	Method for fabricating preplated nickel/palladium and tin leadframes	438/123			Abbott, Donald C.	✓	
3					US 20030151120 A1	20030814	19	Lead-frame forming for improved thermal performance	257/666			Hundt, Michael J. et al.	✓	
4					US 20030141577 A1	20030731	15	Short-prevented lead frame and method for fabricating semiconductor package with the	257/676	257/670; 257/787		Hung, Jui-Hsiang et al.	✓	
5					US 20030127713 A1	20030710	19	Methods of fabricating multilevel leadframes and semiconductor devices	257/666	257/E23.039		Schoenfeld, Aaron	✓	
6					US 20030116833 A1	20030626	11	Lead-frame strip and method of manufacturing semiconductor packages using the same	257/666			Lee, Sang-kyun et al.	✓	
7					US 20030092216 A1	20030515	10	METHOD OF MANUFACTURING A SEMICONDUCTOR PACKAGE WITH A LEAD FRAME HAVING A SUPPORT STRUCTURE	438/106			Lee, Meng-Tsang et al.	✓	
8					US 20030090877 A1	20030515	25	Lead frame, resin sealing mold and method for manufacturing a semiconductor device using the	361/723	361/690		Ochiai, Isao et al.	✓	
9					US 20030501	16	Lead frame, method of	438/123	438/111;	Kasahara	

Hit   Details   HTML

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L Number	Hits	Search Text	DB	Time stamp
27	1	"6650012"	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/23 17:47
28	302	takahashi-yoshiharu.in.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/23 17:47
29	6	takahashi-yoshiharu.in. and (leadframe and (die or chip or "IC"))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/23 17:47
30	38	takahashi-yoshiharu.in. and (lead adj frame and (die or chip or "IC"))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/23 17:47
31	41	(takahashi-yoshiharu.in. and (leadframe and (die or chip or "IC"))) (takahashi-yoshiharu.in. and (lead adj frame and (die or chip or "IC")))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/23 17:47
36	0	6650012.URPN.	USPAT	2004/03/23 17:47
37	0	6650012.URPN.	USPAT	2004/03/23 17:47
38	86	((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/23 17:47
39	84	(((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" | "5723903" | "6081029" | "6087201" | "6166430").PN.) (("5294827" | "5521429" | "5841187" | "5844307" | "5900676" | "5973388" | "5977613").PN.) 6166430.URPN.)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/23 17:48
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32	2	((takahashi-yoshiharu.in. and (leadframe and (die or chip or "IC"))) (takahashi-yoshiharu.in. and (lead adj frame and (die or chip or "IC")))) and (thin adj portion) and (thick adj portion)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/23 17:50
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34	7	("5294827" | "5521429" | "5841187" | "5844307" | "5900676" | "5973388" | "5977613").PN.	USPAT	2004/03/23 17:50
35	13	6166430.URPN.	USPAT	2004/03/23 17:50
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45	46	((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" | "5723903" | "6081029" | "6087201" | "6166430").PN.) (("5294827" | "5521429" | "5841187" | "5844307" | "5900676" | "5973388" | "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) not ((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" | "5723903" | "6081029" | "6087201" | "6166430").PN.) (("5294827" | "5521429" | "5841187" | "5844307" | "5900676" | "5973388" | "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) and ((lead adj frame) or (leadframe)).ti.)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/23 17:50
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49	2	("5648682" | "6691241").PN.	USPAT	2004/03/23 17:50
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57	2	6611047.URPN.	USPAT	2004/03/23 17:51
58	30503	(leadframe or (lead adj frame)) and (manufactur$4 or form$4 or creat$4 or fabricat$4)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/23 17:52
59	18540	((leadframe or (lead adj frame)) and (manufactur$4 or form$4 or creat$4 or fabricat$4)) and ((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/23 17:53
60	2368	(((leadframe or (lead adj frame)) and (manufactur$4 or form$4 or creat$4 or fabricat$4)) and ((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4))) and ((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4)).ti.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/23 17:53
61	2368	((((leadframe or (lead adj frame)) and (manufactur$4 or form$4 or creat$4 or fabricat$4)) and ((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4))) and ((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4)).ti.) and (((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4))).ti.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/23 17:57

| 62 | 2348 | (((((leadframe or (lead adj frame)) and (manufactur$4 or form$4 or creat$4 or fabricat$4)) and ((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4))) and ((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4)).ti.) and (((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4))).ti.) not ("6650012" takahashi-yoshiharu.in. (((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) (((takahashi-yoshiharu.in. and (leadframe and (die or chip or "IC"))) (takahashi-yoshiharu.in. and (lead adj frame and (die or chip or "IC")))) and (thin adj portion) and (thick adj portion)) (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN. ((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) and ((lead adj frame) or (leadframe)).ti.) ((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) not ((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) and ((lead adj frame) or (leadframe)).ti.)) ((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) not ((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin))) (("2632693" \| "2716268" \| "2757443" \| | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/03/23 18:04 |

| 63 | 1139 | (((((((leadframe or (lead adj frame)) and (manufactur$4 or form$4 or creat$4 or fabricat$4)) and ((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4))) and ((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4)).ti.) and (((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4))).ti.) not ("6650012" takahashi-yoshiharu.in. (((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) (((takahashi-yoshiharu.in. and (leadframe and (die or chip or "IC"))) (takahashi-yoshiharu.in. and (lead adj frame and (die or chip or "IC")))) and (thin adj portion) and (thick adj portion)) (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN. (((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) and ((lead adj frame) or (leadframe)).ti.) (((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) not (((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) and ((lead adj frame) or (leadframe)).ti.)) ((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) not ((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin))) (("2632693" \| "2716268" \| "2757443" \| | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/03/23 17:56 |

| 64 | 163 | (((((((leadframe or (lead adj frame)) and (manufactur$4 or form$4 or creat$4 or fabricat$4)) and ((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4))) and ((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4))).ti.) and (((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4))).ti.) not ("6650012" takahashi-yoshiharu.in. (((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) (((takahashi-yoshiharu.in. and (leadframe and (die or chip or "IC"))) (takahashi-yoshiharu.in. and (lead adj frame and (die or chip or "IC")))) and (thin adj portion) and (thick adj portion)) (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN. (((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) and ((lead adj frame) or (leadframe)).ti.) (((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) not (((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) and ((lead adj frame) or (leadframe)).ti.)) ((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) not ((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5841187" \| "5844307" \| | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/03/23 17:56 |

"5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin))) (("2632693" \| "2716268" \| "2757443" \|

| 65 | 143 | (((((((((leadframe or (lead adj frame)) and (manufactur$4 or form$4 or creat$4 or fabricat$4)) and ((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4))) and ((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4)).ti.) and (((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4))).ti.) not ("6650012" takahashi-yoshiharu.in. (((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) (((takahashi-yoshiharu.in. and (leadframe and (die or chip or "IC"))) (takahashi-yoshiharu.in. and (lead adj frame and (die or chip or "IC")))) and (thin adj portion) and (thick adj portion)) (("5389816" | "5723903" | "6081029" | "6087201" | "6166430").PN.) (("5294827" | "5521429" | "5841187" | "5844307" | "5900676" | "5973388" | "5977613").PN.) 6166430.URPN. (((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" | "5723903" | "6081029" | "6087201" | "6166430").PN.) (("5294827" | "5521429" | "5841187" | "5844307" | "5900676" | "5973388" | "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) and ((lead adj frame) or (leadframe)).ti.) ((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" | "5723903" | "6081029" | "6087201" | "6166430").PN.) (("5294827" | "5521429" | "5841187" | "5844307" | "5900676" | "5973388" | "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) not ((((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" | "5723903" | "6081029" | "6087201" | "6166430").PN.) (("5294827" | "5521429" | "5841187" | "5844307" | "5900676" | "5973388" | "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) and ((lead adj frame) or (leadframe)).ti.)) ((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" | "5723903" | "6081029" | "6087201" | "6166430").PN.) (("5294827" | "5521429" | "5841187" | "5844307" | "5900676" | "5973388" | "5977613").PN.) 6166430.URPN.)) and (method or process)) not ((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" | "5723903" | "6081029" | "6087201" | "6166430").PN.) (("5294827" | | "5841187" | "5844307" | "5900676" | "5973388" | "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin))) (("2632693" | "2716268" | "2757443" | | | | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/03/23 17:57 |

| 66 | 133 | ((((((((((leadframe or (lead adj frame)) and (manufactur$4 or form$4 or creat$4 or fabricat$4)) and ((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4))) and ((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4)).ti.) and (((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4))).ti.) not ("6650012" takahashi-yoshiharu.in. (((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) (((takahashi-yoshiharu.in. and (leadframe and (die or chip or "IC"))) (takahashi-yoshiharu.in. and (lead adj frame and (die or chip or "IC")))) and (thin adj portion) and (thick adj portion)) (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN. (((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) and ((lead adj frame) or (leadframe)).ti.) (((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) not (((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) and ((lead adj frame) or (leadframe)).ti.)) (((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) not ((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin))) (("2632693" \| "2716268" \| "2757443" \| | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/03/23 18:14 |

| 67 | 63 | (((((((((((leadframe or (lead adj frame)) and (manufactur$4 or form$4 or creat$4 or fabricat$4)) and ((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4))) and ((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4)).ti.) and (((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4))).ti.) not ("6650012" takahashi-yoshiharu.in. (((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) (((takahashi-yoshiharu.in. and (leadframe and (die or chip or "IC"))) (takahashi-yoshiharu.in. and (lead adj frame and (die or chip or "IC")))) and (thin adj portion) and (thick adj portion)) (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN. ((((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) and ((lead adj frame) or (leadframe)).ti.) (((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) not ((((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) and ((lead adj frame) or (leadframe)).ti.)) ((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) not ((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5841187" \| "5844307" \| | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/03/23 17:58 |

"5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin))) (("2632693" \| "2716268" \| "2757443" \|

| 68 | 49 | (((((((((((leadframe or (lead adj frame)) and (manufactur$4 or form$4 or creat$4 or fabricat$4)) and ((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4))) and ((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4))).ti.) and (((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4))).ti.) not ("6650012" takahashi-yoshiharu.in. (((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) (((takahashi-yoshiharu.in. and (leadframe and (die or chip or "IC"))) (takahashi-yoshiharu.in. and (lead adj frame and (die or chip or "IC")))) and (thin adj portion) and (thick adj portion)) (("5389816" | "5723903" | "6081029" | "6087201" | "6166430").PN.) (("5294827" | "5521429" | "5841187" | "5844307" | "5900676" | "5973388" | "5977613").PN.) 6166430.URPN. (((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" | "5723903" | "6081029" | "6087201" | "6166430").PN.) (("5294827" | "5521429" | "5841187" | "5844307" | "5900676" | "5973388" | "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) and ((lead adj frame) or (leadframe)).ti.) (((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" | "5723903" | "6081029" | "6087201" | "6166430").PN.) (("5294827" | "5521429" | "5841187" | "5844307" | "5900676" | "5973388" | "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) not (((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" | "5723903" | "6081029" | "6087201" | "6166430").PN.) (("5294827" | "5521429" | "5841187" | "5844307" | "5900676" | "5973388" | "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) and ((lead adj frame) or (leadframe)).ti.)) ((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" | "5723903" | "6081029" | "6087201" | "6166430").PN.) (("5294827" | "5521429" | "5841187" | "5844307" | "5900676" | "5973388" | "5977613").PN.) 6166430.URPN.)) and (method or process)) not (((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" | "5723903" | "6081029" | "6087201" | "6166430").PN.) (("5294827" | "6166430").PN.) (("5294827" | | | |
| | | | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/03/23 17:58 |

"5521429" | "5841187" | "5844307" | "5900676" | "5973388" | "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin))) (("2632693" | "2716268" | "2757443" |

| 69 | 510 | "6650012" takahashi-yoshiharu.in. (((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) (((takahashi-yoshiharu.in. and (leadframe and (die or chip or "IC"))) (takahashi-yoshiharu.in. and (lead adj frame and (die or chip or "IC")))) and (thin adj portion) and (thick adj portion)) (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN. ((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) and ((lead adj frame) or (leadframe)).ti.) (((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) not (((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) and ((lead adj frame) or (leadframe)).ti.)) ((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) not (((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin))) (("2632693" \| "2716268" \| "2757443" \| "2958120" \| "3039177" \| "3148098" \| "3389461" \| "3678577" \| "3923566" \| "3990142" \| "4090293" \| "4363930" \| "4396457" \| "4651417" \| "4867839" \| "4912844" \| "5004521" \| "5100498" \| "5148265" \| "5148266" \| "5194698" \| "5426850" \| "5430614" \| "5489749" \| "5491302" \| "5518964" \| "5629239" \| "5648682" \| "5691241").PN.) 6083837.URPN. (("5648682" \| "6691241").PN.) 6563209.URPN. | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/03/23 18:05 |

70	70	(((((((((((leadframe or (lead adj frame)) and (manufactur$4 or form$4 or creat$4 or fabricat$4)) and ((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4))) and ((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4)).ti.) and (((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4))).ti.) not ("6650012" takahashi-yoshiharu.in. (((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) (((takahashi-yoshiharu.in. and (leadframe and (die or chip or "IC"))) (takahashi-yoshiharu.in. and (lead adj frame and (die or chip or "IC")))) and (thin adj portion) and (thick adj portion)) (("5389816" | "5723903" | "6081029" | "6087201" | "6166430").PN.) (("5294827" | "5521429" | "5841187" | "5844307" | "5900676" | "5973388" | "5977613").PN.) 6166430.URPN. (((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" | "5723903" | "6081029" | "6087201" | "6166430").PN.) (("5294827" | "5521429" | "5841187" | "5844307" | "5900676" | "5973388" | "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) and ((lead adj frame) or (leadframe)).ti.) ((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" | "5723903" | "6081029" | "6087201" | "6166430").PN.) (("5294827" | "5521429" | "5841187" | "5844307" | "5900676" | "5973388" | "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) not (((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" | "5723903" | "6081029" | "6087201" | "6166430").PN.) (("5294827" | "5521429" | "5841187" | "5844307" | "5900676" | "5973388" | "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) and ((lead adj frame) or (leadframe)).ti.)) ((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" | "5723903" | "6081029" | "6087201" | "6166430").PN.) (("5294827" | "5521429" | "5841187" | "5844307" | "5900676" | "5973388" | "5977613").PN.) 6166430.URPN.)) and (method or process)) not ((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" | "5723903" | "6081029" | "6166430").PN.) (("5294827" | "5521429" | "5841187" | "5844307" |	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/23 18:05

		"5900676" | "5973388" | "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin))) (("2632693" | "2716268" | "2757443" |		

| 71 | 70 | (((((((((((leadframe or (lead adj frame)) and (manufactur$4 or form$4 or creat$4 or fabricat$4)) and ((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4))) and ((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4)).ti.) and (((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4))).ti.) not ("6650012" takahashi-yoshiharu.in. (((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) (((takahashi-yoshiharu.in. and (leadframe and (die or chip or "IC"))) (takahashi-yoshiharu.in. and (lead adj frame and (die or chip or "IC")))) and (thin adj portion) and (thick adj portion)) (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN. (((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) and ((lead adj frame) or (leadframe)).ti.) ((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) not ((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) and ((lead adj frame) or (leadframe)).ti.)) ((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) not ((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5841187" \| "5844307" | "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin))) (("2632693" \| "2716268" \| "2757443" \| | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/03/23 18:05 |

| 72 | 30 | ((((((((leadframe or (lead adj frame)) and (manufactur$4 or form$4 or creat$4 or fabricat$4)) and ((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4))) and ((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4)).ti.) and (((leadframe or (lead adj frame)) with (manufactur$4 or form$4 or creat$4 or fabricat$4))).ti.) not ("6650012" takahashi-yoshiharu.in. (((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) (((takahashi-yoshiharu.in. and (leadframe and (die or chip or "IC"))) (takahashi-yoshiharu.in. and (lead adj frame and (die or chip or "IC")))) and (thin adj portion) and (thick adj portion)) (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN. (((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) and ((lead adj frame) or (leadframe)).ti.) ((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) not (((((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin)) and (electrode or terminal or pad)) and (plurality)) and ((lead adj frame) or (leadframe)).ti.)) ((((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5521429" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) not (((((lead adj frame) or (leadframe)) and (thin adj portion) and (thick adj portion)) not (takahashi-yoshiharu.in. (("5389816" \| "5723903" \| "6081029" \| "6087201" \| "6166430").PN.) (("5294827" \| "5841187" \| "5844307" \| "5900676" \| "5973388" \| "5977613").PN.) 6166430.URPN.)) and (method or process)) and (package or shield$4 or resin))) (("2632693" \| "2716268" \| "2757443" \| | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/03/23 18:14 |